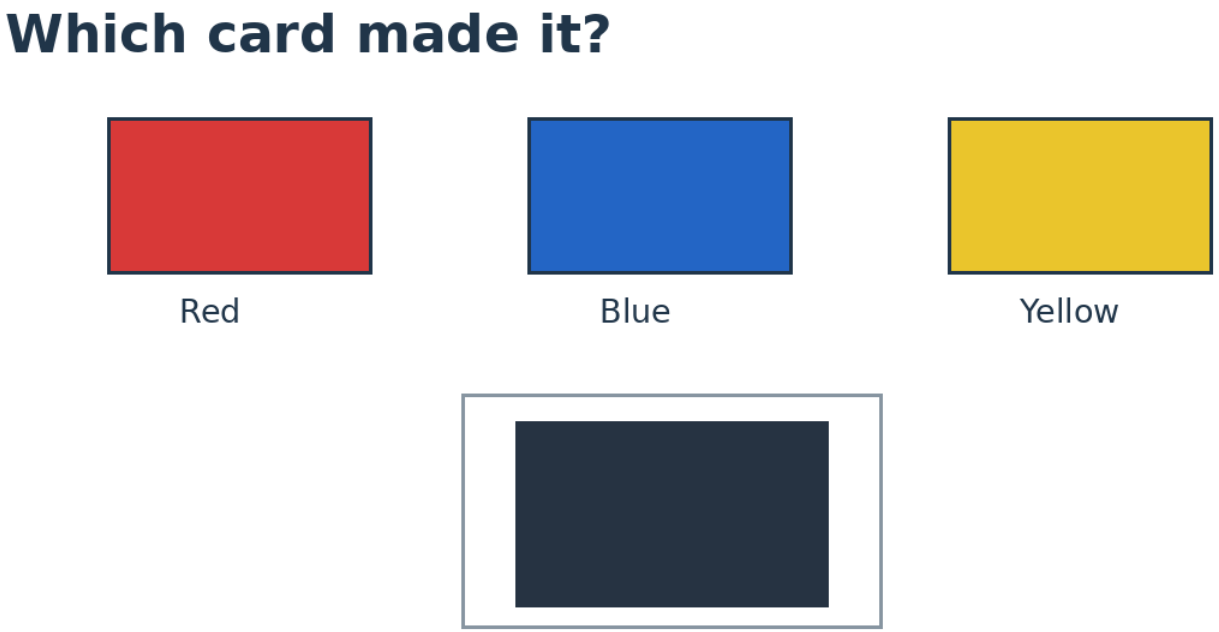
Which card made it?

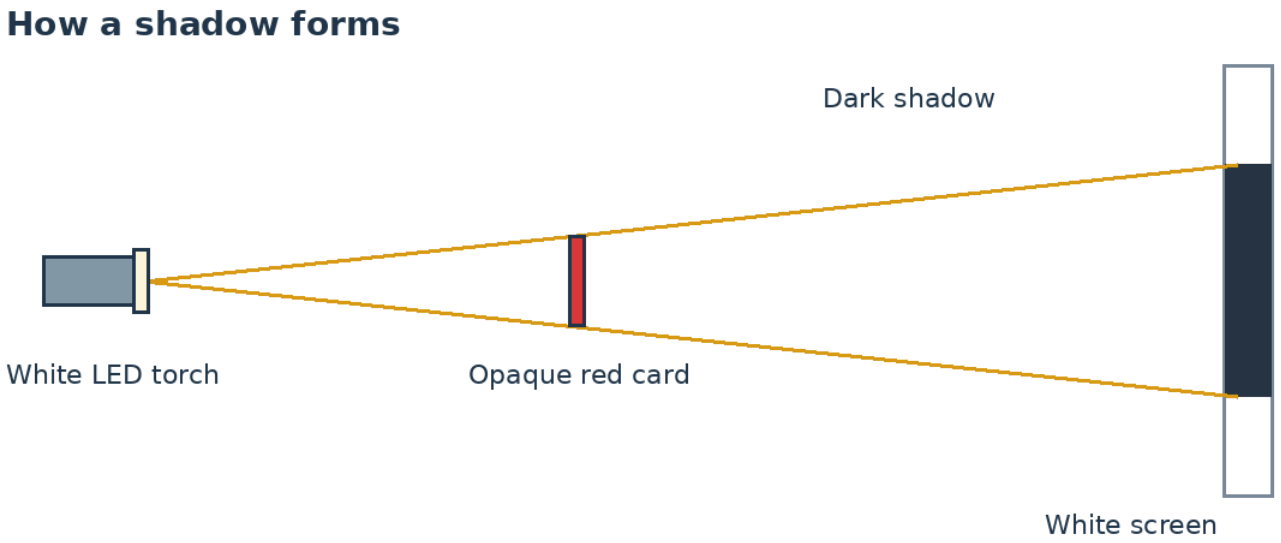


Opaque cards: same shape, size and position. White light; one dark shadow.

Same shape and size. Same position. White light.

Predict: red, blue, yellow... or can we tell?

Build a shadow



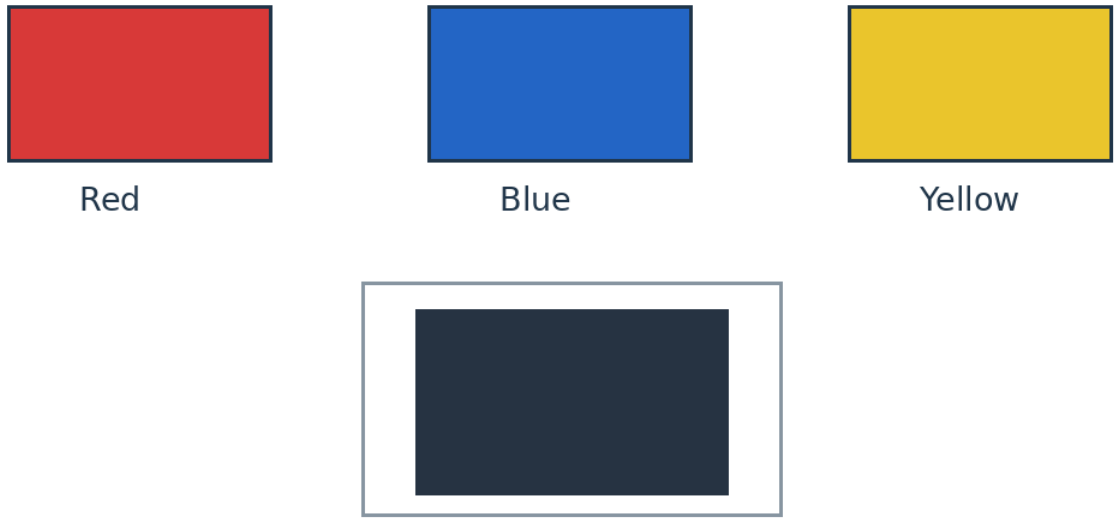
Ideal ray illustration, not measurement. Card blocks the central light.

Find the light source, opaque object and screen.

How does the card make a dark patch?

Predict, then test colour

Which card made it?



Opaque cards: same shape, size and position. White light; one dark shadow.

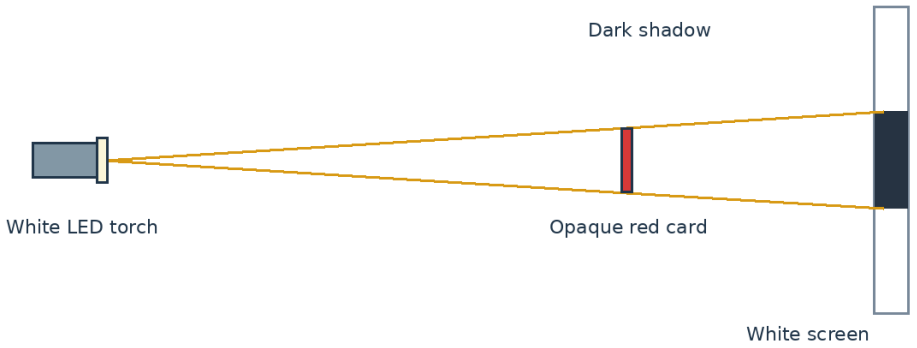
Swap only the opaque card colour.

Keep size, angle, torch, card position and screen fixed.

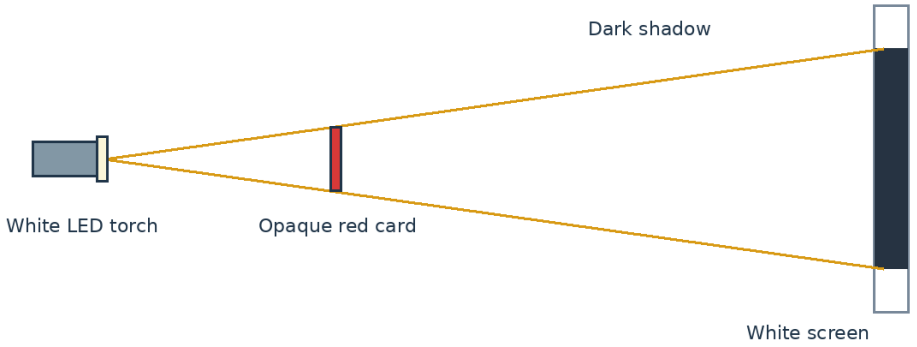
Record your prediction before observing.

Move the card

A | Card nearer the screen



B | Same card nearer the torch



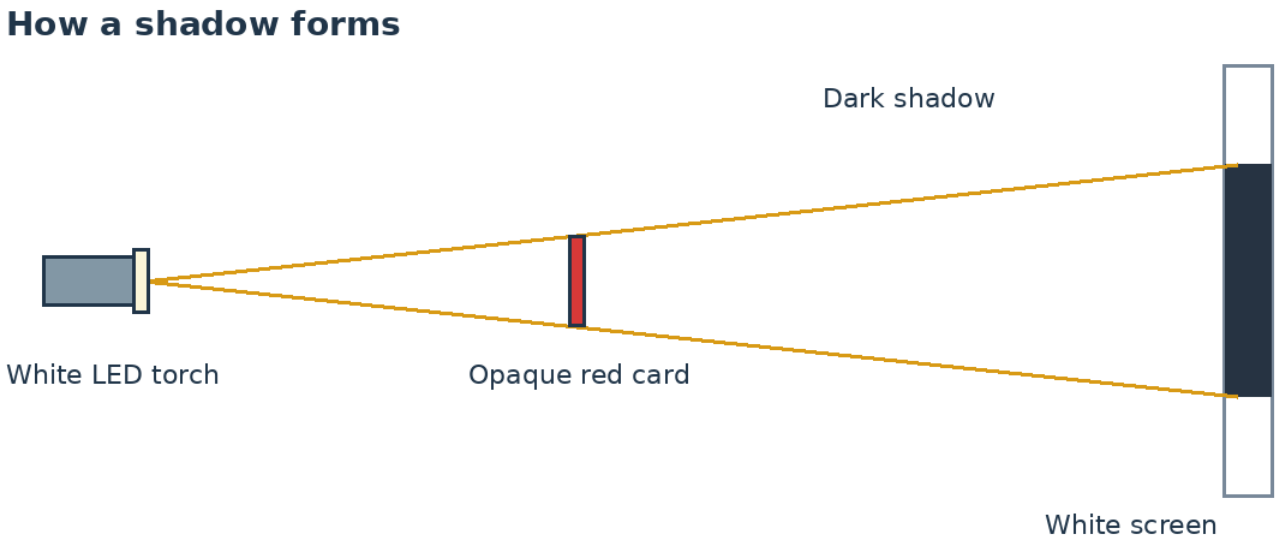
Ideal small-source rays; illustration, not measurement. Torch and screen fixed.

Keep torch and screen fixed. Use the same card.

Predict: A or B makes the larger shadow?

Test, then explain. No measurements from this drawing.

Explain with evidence



Ideal ray illustration, not measurement. Card blocks the central light.

Opaque card blocks light: a dark region appears.

Changing opaque card colour does not colour the shadow.

Some transparent objects can make faint shadows.

Show your thinking

Complete Q1-Q6 on the worksheet.

Use words or labelled sketches.

Exit: what stays fixed in a fair colour test?